



SEQUENCE LISTING

(1) GENERAL INFORMATION

(i) APPLICANTS: ELAZAR RABBANI
JANNIS G. STAVRIANOPOULOS
JAMES J. DONEGAN
DAKAI LIU
NORMAN E. KELKER
DEAN L. ENGELHARDT

(ii) TITLE OF INVENTION: NOVEL PROPERTY EFFECTING AND/OR
PROPERTY EXHIBITING COMPOSITIONS FOR THERAPEUTIC AND
DIAGNOSTIC USE

(iii) NUMBER OF SEQUENCES: 42

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: ENZO THERAPEUTICS, INC.
(B) STREET: C/O ENZO BIOCHEM, INC.
527 MADISON AVENUE, 9TH FLOOR
(C) CITY: NEW YORK
(D) STATE: NY
(E) COUNTRY: USA
(F) ZIP: 10022

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5" Micro Floppy Disk. 1.44 KB
STORAGE
(B) COMPUTER: IBM PC/XT/AT, IBM PS/2 OR COMPATIBLES
(C) OPERATING SYSTEM: PC-DOS
(D) SOFTWARE: MICROSOFT WORD ___ - ASCII TEXT (DOS)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/978,635
(B) FILING DATE: 25-NOVEMBER-1997
(C) CLASSIFICATION: Not Yet Known

(vii) ATTORNEY/AGENT INFORMATION:

(A) NAME: FEDUS, RONALD C.
(B) REGISTRATION NUMBER: 32,567
(C) REFERENCE/DOCKET NUMBER: ENZ-53(D4)

(viii) TELECOMMUNICATION INFORMATION

(A) TELEPHONE: (212) 583-0100
(B) TELEFAX: (212) 583-0150

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

(2) INFORMATION FOR SEQ ID NO: 1

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

ENZ-53(D4)

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Gly Phe Phe Gly Ala Ile Ala Gly Phe Leu Glu Gly Gly Trp Glu Gly
1 10 15
Met Ile Ala Gly
20

(3) INFORMATION FOR SEQ ID NO. 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TGCTCTCTAA GGGTCTACTC

20

(4) INFORMATION FOR SEQ ID NO. 3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

CTCTAAGGTA AATAT

15

(5) INFORMATION FOR SEQ ID NO. 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 16 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

TGTATTTTAG ATTCAA

16

(6) INFORMATION FOR SEQ ID NO. 5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

TGCTCTCTAA GGTAATAT

19

(7) INFORMATION FOR SEQ ID NO. 6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

TGTATTTTAG GGTCTACTC

19

(8) INFORMATION FOR SEQ ID NO. 7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: mRNA
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

UGCUCUCUAA GGUAAAUAU

19

(9) INFORMATION FOR SEQ ID NO. 8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: mRNA
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

UGUAUUUUAG GGUCUACUC

19

(10) INFORMATION FOR SEQ ID NO. 9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: mRNA
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

UGCUCUCUAA GGGUCUACUC

20

(11) INFORMATION FOR SEQ ID NO. 10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 49 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION : SEQ ID NO: 10:

GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGC

49

(12) INFORMATION FOR SEQ ID NO. 11:

ENZ-53(D4)

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 55 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GACTAGTTGG TCTCGTCTCT TTTTGGAGG AGTGTCGTTC TIAGCGATGT TAATC

55

(13) INFORMATION FOR SEQ ID NO. 12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 46 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC

46

(14) INFORMATION FOR SEQ ID NO. 13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

GACTAGTGGT C'CCCCCTTAG AGAGCATGTC AGC

33

(15) INFORMATION FOR SEQ ID NO. 14:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 33 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGAATTCGGT CTCGGGTCTA CTCGGTGGCG AGG

33

(16) INFORMATION FOR SEQ ID NO. 15:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 27 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GACTAGTCGT TACGCGAACG CAAAGTC

27

(17) INFORMATION FOR SEQ ID NO. 16:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 36 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGAATTCGTC TCTAAGGTAA ATATAAAATT TTAAAG

36

(18) INFORMATION FOR SEQ ID NO. 17:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 40 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single

(D) TOPOLOGY linear

(ii) MOLECULE TYPE: other nucleic acid
(A) Description: desc "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GACTAGTCGT CTCTGACCCT AAAATACACA AACAAATTAGA

40

(19) INFORMATION FOR SEQ ID NO. 18:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 92 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGCT AAGAACGACA

60

CTCCTCCAAA AAAGAGACGA GACCAACTAG TC

92

(20) INFORMATION FOR SEQ ID NO. 19:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 46 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC

46

(21) INFORMATION FOR SEQ ID NO. 20:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 106 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGCT AAGAACGACA 60
CTCCTCCAAA AAAGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC 106

(22) INFORMATION FOR SEQ ID NO. 21

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 50 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

ATGGACACGA TTAACATCGC TAAGAACGAC TTCTCTGACA TCGAACTGGC 50

(23) INFORMATION FOR SEQ ID NO. 22:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 77 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

ATGGACACGA TTAACATCGC TAAGAACGAC ACTCCTCCAA AAAAGAGAAA GGTAATAATC 60
TCTGACATCG AACTGGC 77

(24) INFORMATION FOR SEQ ID NO. 23:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid

(A) Description: desc "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GATCATTAGA CCAGATCTGA GCCTGGGAGC TCTCTGGCTA ACTAGGGAAC CCACTGCTTA 60

AGCCTCAAG 69

(25) INFORMATION FOR SEQ ID NO. 24:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 69 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

GATCCTTGAG GCTTAAGCAG TGGGTTCCCT AGTTAGCCAG AGAGCTCCCA GGCTCAGATC 60

TGGTCTAAT 69

(26) INFORMATION FOR SEQ ID NO. 25:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 61 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

GATCACCTTA GGCTCTCCTA TGGCAGGAAG AAGCGGAGAC AGCGACGAAG ACCTCCTCAA 60

G 61

(27) INFORMATION FOR SEQ ID NO. 26:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 61 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

GATCCTTGAG GAGGTCTTCG TCGCTGTCTC CGCTTCTTCC TGCCATAGGA GAGCCTAAGG 60
T 61

(28) INFORMATION FOR SEQ ID NO. 27:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 62 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

GATCATAGTG AATAGAGTTA GGCAGGGATA CTCACCATTA TCGTTTCAGA CCCACCTCCC 60
AG 62

(29) INFORMATION FOR SEQ ID NO. 28:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 62 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

GATCCTGGGA GGTGGGTCTG AAACGATAAT GGTGAGTATC CCTGCCTAAC TCTATTCACT 60
AT 62

(30) INFORMATION FOR SEQ ID NO. 29:

ENZ-53(D4)

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (iv) ORIGINAL SOURCE:
 - (A) ORGANISM: TER-1
- (x) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

AATCTAGAGC TAACAAAGCC CGAAAGGAAG

30

(31) INFORMATION FOR SEQ ID NO. 30:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

TTCTGCAGAT ATAGTTCCTC CTTTCAGC

28

(32) INFORMATION FOR SEQ ID NO. 31:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

TCGAGCCATG GCTTAAGGAT CCGTACGTCC GGAGCTAGCG GGCCCATCGA TACTAGTTAA
ATGCAGATCT

60

70

(33) INFORMATION FOR SEQ ID NO. 32:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"

- (iii) HYPOTHETICAL: YES

- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

CTAGAGATCT GCATTTAAC T AGTATCGATG GGCCCCGTAG CTCCGGACGT ACGGATCCTT 60
AAGCCATGGC 70

(34) INFORMATION FOR SEQ ID NO. 33:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"

- (iii) HYPOTHETICAL: YES

- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

CATGAAATTA ATTCGACTCA CTATACGGA 29

(35) INFORMATION FOR SEQ ID NO. 34:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"

- (iii) HYPOTHETICAL: YES

- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

TTTAATTAAG CTGAGTGATA TGCCCTAG 29

GATCCGGACC TTGAGGAGGT CTCGTCGCT GTCTCCGCTT CTCCTGCCA TAGGAGAGCC 60
 TAAGGT 66

(39) INFORMATION FOR SEQ ID NO. 38:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 66 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

CCGGACCTTA GGCTCTCCTA TGGCAGGAAG AAGCGGAGAC AGCGACGAAG ACCTCCTCAA 60
 GGTCCG 66

(40) INFORMATION FOR SEQ ID NO. 39:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 65 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

GATCCGGATG GGAGGTGGGT CTGAAACGAT AATGGTGAGT ATCCCTGCCT AACTCTATTC 60
 ACTAT 65

(41) INFORMATION FOR SEQ ID NO. 40:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 65 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

CCGGATAGTG AATAGAGTIA GGCAGGGATA CTCACCATT A TCGTTTCAGA CCCACCTCCC 60
ATCCG 65

(42) INFORMATION FOR SEQ ID NO. 41:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 67 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

GATCAGCATG CCTGCAGGTC GACTCTAGAC CCGGGTACCG AGCTCGCCCT ATAGTGAGTC 60
GTATTAT 67

(43) INFORMATION FOR SEQ ID NO. 42:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 67 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) Description: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: YES

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

CCGGATAATA CGACTCACTA TAGGGCGAGC TCGGTACCCG GGTCTAGAGT CGACCTGCAG 60
GCATGCT 67

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ENZ-53(D4)



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